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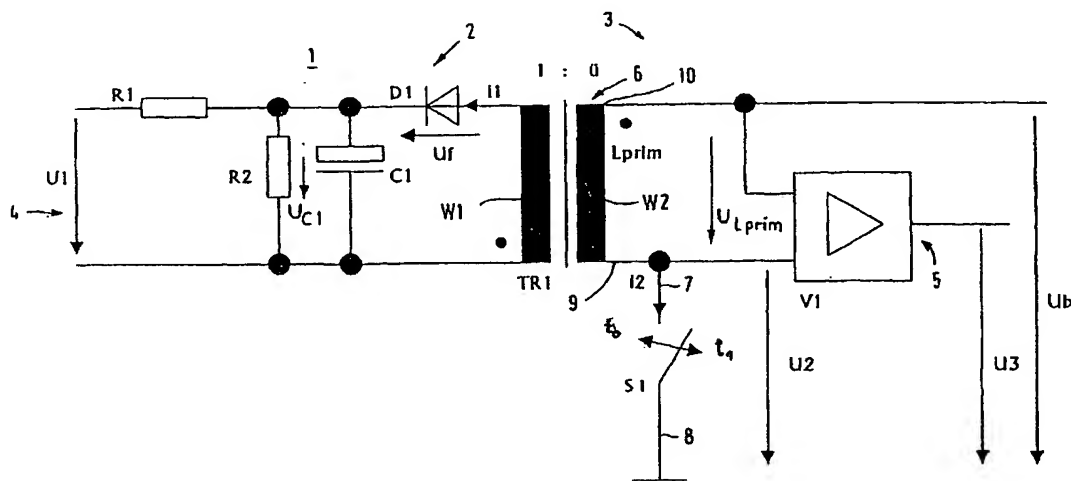
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(54) Title: CIRCUIT ARRANGEMENT FOR ELECTRICALLY ISOLATED SIGNAL TRANSMISSION

(54) Bezeichnung: SCHALTUNGSANORDNUNG ZUR GALVANIISCH GETRENNTEN SIGNALÜBERTRAGUNG



(57) **Abstract:** The invention relates to a circuit arrangement for the electrically isolated transmission of an analog input quantity by means of a signal transmission part, comprising a voltage input and a voltage output and, in particular, for also matching the voltage between the voltage input and the voltage output of the circuit arrangement. The signal transmission part is designed as an inductive signal transmission part (6), and the circuit arrangement is provided with a charging and discharging arrangement having a switching element (S1) so that by actuating the switching element (S1), a charging or discharging current (i1, i2) occurs, which is proportional to an input voltage (U1) and which flows through the signal transmission part (6), and an output voltage (U3) ensues at the voltage output.

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Abstract

The invention relates to a circuit arrangement for
5 DC-isolated transmission of an analog input variable by
means of a signal transformation part, having a voltage
input and a voltage output, and in particular also for
voltage matching between the voltage input and the
voltage output of the circuit arrangement. The signal
10 transformation part is designed as an inductive signal
transformation part (6) and the circuit arrangement is
provided with a charging and discharging arrangement
having a switching element (S1) in such a way that, as
a result of the switching element (S1) being actuated,
15 a charging or discharging current (i_1 , i_2) that is
proportional to an input voltage (U_1) and flows through
the signal transformation part (6) occurs and an output
voltage (U_3) is established at the voltage output.

20 Figure 1